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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/707,703	01/06/2004	Sheng-Tai Young	FTCP0030USA	1702
27765	7590 07/27/200	;	EXAMINER	
NORTH AMERICA INTERNATIONAL PATENT OFFICE (NAIPC) P.O. BOX 506 MERRIFIELD, VA 22116			ERDEM, FAZLI	
			ART UNIT	PAPER NUMBER
	•		2826	

DATE MAILED: 07/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/707,703	YOUNG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Fazli Erdem	2826				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status		•				
1) Responsive to communication(s) filed on 10 J	uly 2005.					
	This action is FINAL. 2b) ☑ This action is non-final.					
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
)⊠ Claim(s) <u>1-4 and 6-11</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdra	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>6-11</u> is/are allowed.	☑ Claim(s) <u>6-11</u> is/are allowed.					
6)⊠ Claim(s) <u>1-4</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	er.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the	•					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
1. Certified copies of the priority document	s have been received.					
2. Certified copies of the priority document	•	•				
3. Copies of the certified copies of the prio application from the International Bureau	•	d in this National Stage				
* See the attached detailed Office action for a list		d.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te				
3) L_Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atent Application (PTO-152)				

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DETAILED ACTION

Allowable Subject Matter

1. Claims 6-11 allowed.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-4 and rejected under 35 U.S.C. 103(a) as being unpatentable over Goo (5,677,215) in view of Guterman (4,422,092) further in view of Wen et al. (5,825,069)

Regarding Claims 1-4, Goo discloses a method of fabricating a nonvolatile semiconductor memory device where in Fig. 4, n+ heavily doped region 18b is situated inside the p+ heavily doped region 19 which is situated on the substrate 10. Another heavily doped n+ region is formed on the substrate 10. The doped regions 18a, 18b and 19 are adjacent are situated on the source and drain regions of the gate 17 and adjacent to each other via lightly doped region 13. Goo fails to disclose the required plurality number of heavily doped regions and the required diode formation structure. However, Guterman discloses a high coupling ratio electrically programmable ROM where in Figs. 2 and 3, the required plurality number of heavily doped regions are disclosed.

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Furthermore, Wen et al. disclose a high-density semiconductor read-only memory device . where in claim 4, the required diode formation is disclosed.

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the required plurality number of highly doped regions and the required diode formation structure in Goo as taught by Guterman and Wen et al., respectively, in order to have a ROM structure with better functionality.

Also regarding Claims 1-4, Chen et al. reference is included as related art.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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FE July 22, 2005

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